

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: ITL51098

Luminaire Tested: **LXC15SXX22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: ITL51098
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXC15SXX22
Description: 150W HPS TYPE II LEXINGTON POST TOP
Light Source: 150W HPS CL ED-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 8183.6 lumens
Efficiency: 51.1%
Efficacy: 54.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.97' x L: 0.97' x H: 0.81')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

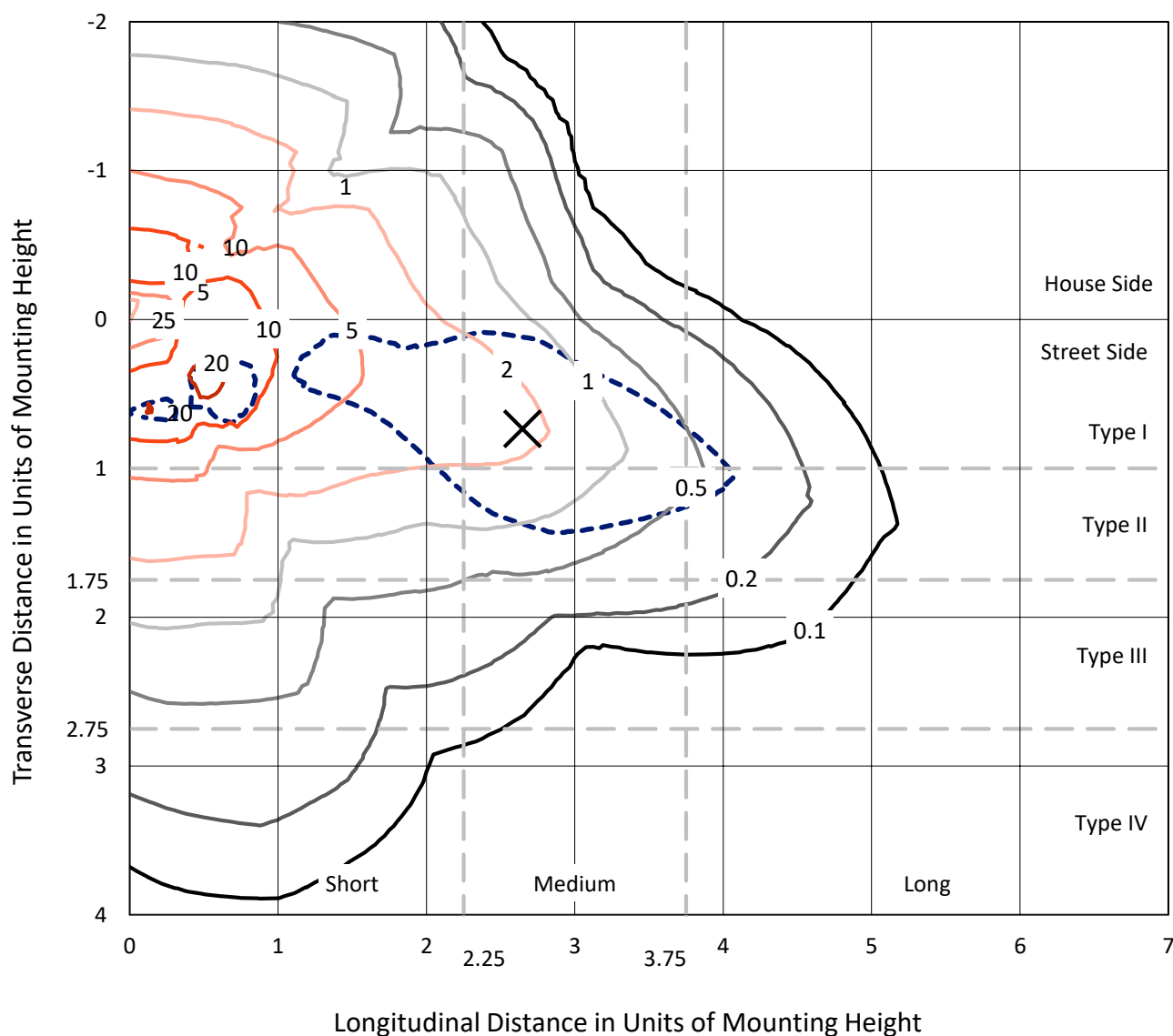
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

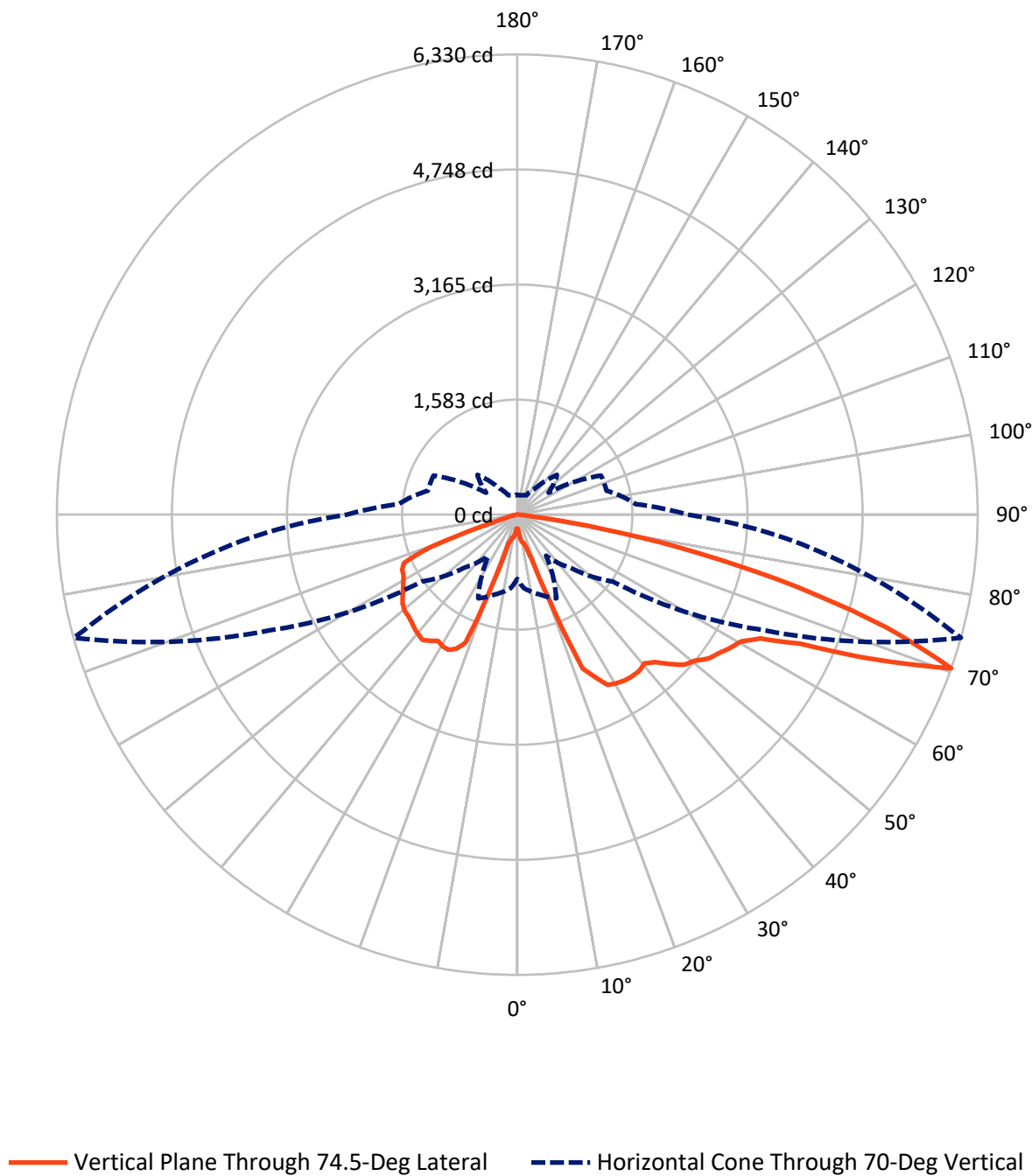
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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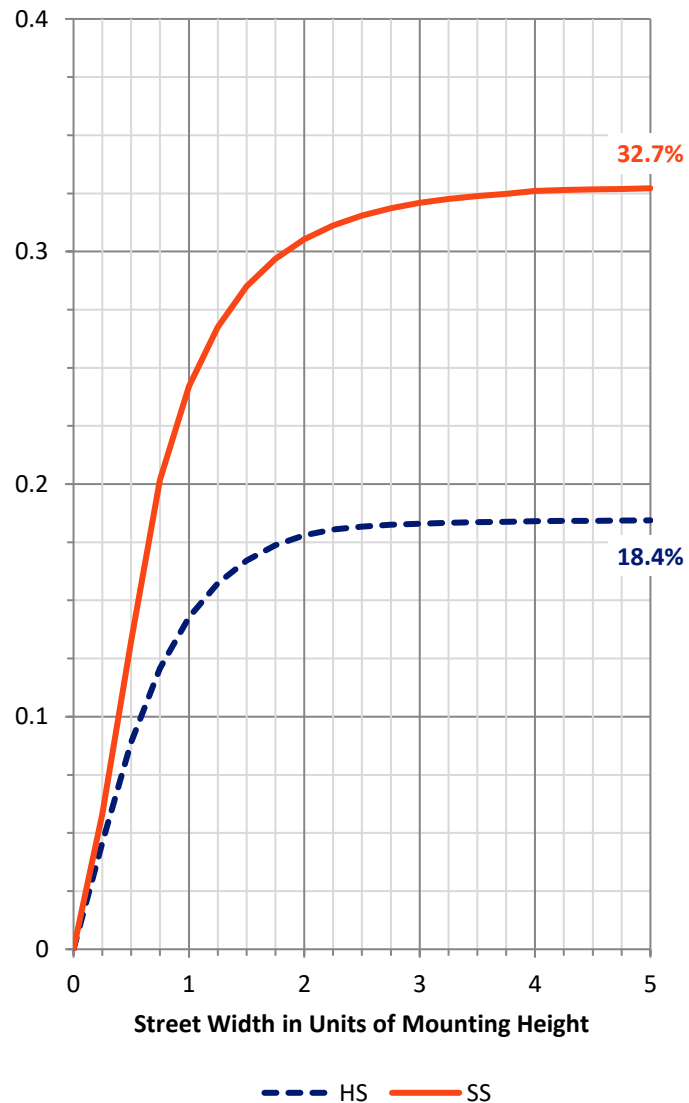
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2960.1	0.0	2960.1
	% Lamp	18.5	0.0	18.5
Street Side	Lumens	5223.5	0.0	5223.5
	% Lamp	32.6	0.0	32.6
Total	Lumens	8183.6	0.0	8183.6
	% Lamp	51.1	0.0	51.1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.8	0.3	0.2
10°-20°	217.1	2.7	1.4
20°-30°	896.4	11.0	5.6
30°-40°	1497.7	18.3	9.4
40°-50°	1547.0	18.9	9.7
50°-60°	1557.7	19.0	9.7
60°-70°	1570.4	19.2	9.8
70°-80°	831.3	10.2	5.2
80°-90°	40.2	0.5	0.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	8183.6	100.0	51.1
0°-180°	8183.6	100.0	51.1

Coefficient of Utilization



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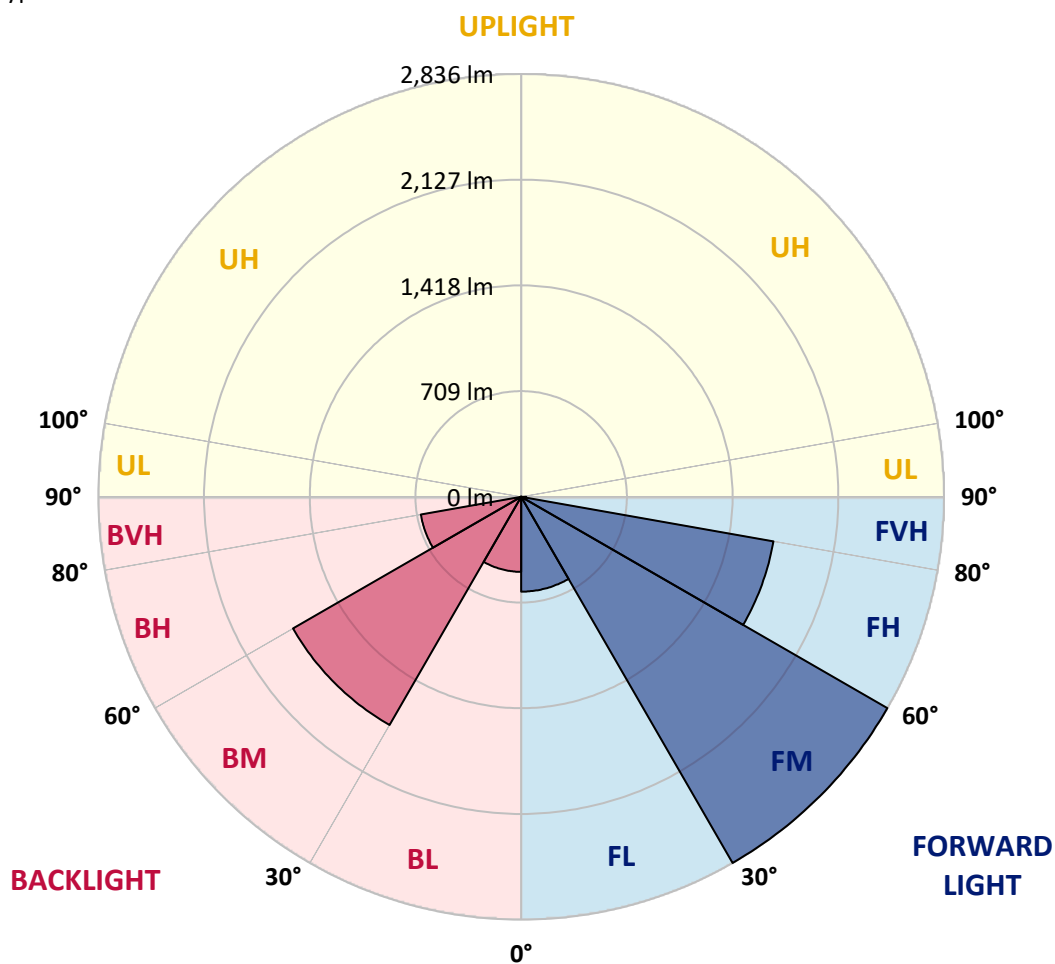
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	636.0	4.0			
FM	(30°-60°)	2835.5	17.7			
FH	(60°-80°)	1718.2	10.7			G1/1800
FVH	(80°-90°)	33.8	0.2			G1/100
BL	(0°-30°)	503.3	3.1	B2/1000		
BM	(30°-60°)	1766.9	11.0	B2/2500		
BH	(60°-80°)	683.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	6.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		7816.4	48.9			

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74.5°	75°	85°
0°	192	192	192	192	192	192	192	192	192	192	192
2.5°	240	240	240	221	221	221	221	221	212	212	203
5°	295	286	267	258	267	286	286	286	276	267	267
7.5°	332	332	295	322	341	350	378	369	350	350	332
10°	405	396	369	405	442	461	451	442	387	405	359
12.5°	571	544	516	553	562	562	534	479	405	424	359
15°	811	755	765	802	783	728	654	534	470	470	433
17.5°	1050	1013	1041	1096	1013	884	728	663	636	599	553
20°	1290	1244	1345	1400	1262	1050	931	820	1207	1142	1318
22.5°	1511	1483	1668	1751	1594	1400	1299	1714	2294	2193	2202
25°	2082	2027	2082	2036	1815	1723	2285	2598	2469	2469	2322
27.5°	2967	2921	2911	2598	2027	2635	3234	2921	2653	2617	2423
30°	3354	3473	3519	3317	2322	3501	3639	3160	2690	2672	2377
32.5°	3077	3243	3418	3667	2460	3787	3916	3381	2718	2690	2395
35°	2635	2819	3004	3446	2423	3925	4146	3556	2727	2773	2524
37.5°	2193	2331	2524	3068	2266	3906	4247	3510	2727	2755	2543
40°	1880	1953	2156	2690	2009	3750	4063	3271	2690	2727	2598
42.5°	1695	1751	1898	2386	1751	3492	3575	3013	2773	2773	2681
45°	1585	1622	1760	2091	1502	3031	3059	2884	2930	2902	2681
47.5°	1511	1548	1686	1926	1271	2497	2690	2911	3086	3086	2690
50°	1474	1502	1631	1815	1115	2082	2460	2985	3160	3160	2838
52.5°	1456	1502	1585	1741	1004	1815	2405	2957	3289	3280	3086
55°	1419	1474	1502	1695	931	1640	2266	2856	3363	3363	3188
57.5°	1364	1428	1465	1658	884	1511	2082	2773	3455	3455	3169
60°	1290	1364	1382	1603	838	1428	1916	2718	3538	3510	3133
62.5°	1216	1290	1336	1539	820	1318	1833	2801	3750	3695	3040
65°	1124	1216	1253	1483	792	1225	1787	2976	4275	4146	3262
67.5°	1013	1115	1198	1400	746	1115	1723	3326	5325	5077	3759
70°	884	1013	1133	1271	691	1032	1603	3768	6330	6182	3695
72.5°	755	875	1078	1060	608	931	1364	3483	5316	5639	2580
75°	534	691	931	774	461	608	608	2386	3980	4137	1870
77.5°	221	304	405	267	175	101	240	1704	2552	2690	1253
80°	37	46	55	46	37	37	111	940	1179	1308	534
82.5°	0	9	18	9	9	0	46	276	212	286	92
85°	0	0	0	0	0	0	0	18	9	18	18
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	74.5°	75°	85°
175°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	192	192	192	192	192	192	192	192	192	192	192
2.5°	203	203	193	184	175	147	157	138	138	138	129
5°	258	249	230	212	193	184	166	147	129	120	129
7.5°	313	313	276	267	249	230	203	203	175	157	147
10°	341	341	313	304	295	286	267	240	249	230	221
12.5°	350	332	322	322	332	332	350	544	654	737	663
15°	405	387	369	369	378	470	811	1060	1299	1345	1308
17.5°	516	470	415	405	461	875	1318	1622	1751	1751	1732
20°	1299	1235	1032	451	691	1318	1751	1806	1769	1723	1714
22.5°	2156	2110	1944	1060	802	1732	1852	1797	1732	1677	1677
25°	2257	2193	2055	1520	765	1833	1833	1778	1686	1649	1640
27.5°	2340	2266	2110	1603	728	1797	1787	1732	1658	1622	1622
30°	2276	2220	2101	1714	709	1760	1732	1695	1622	1603	1603
32.5°	2285	2220	2064	1769	755	1751	1704	1668	1603	1612	1603
35°	2423	2349	2119	1824	728	1787	1668	1640	1566	1603	1585
37.5°	2442	2386	2174	1898	709	1806	1649	1622	1539	1557	1548
40°	2478	2349	2147	1907	719	1714	1640	1575	1474	1493	1474
42.5°	2515	2322	2119	1907	691	1649	1603	1511	1391	1446	1474
45°	2469	2285	2082	1898	673	1622	1529	1428	1308	1364	1419
47.5°	2451	2257	2055	1880	654	1539	1456	1345	1244	1271	1308
50°	2515	2294	2045	1852	654	1493	1382	1281	1179	1179	1198
52.5°	2672	2368	2009	1797	636	1437	1318	1216	1106	1096	1106
55°	2700	2331	1944	1760	627	1391	1235	1133	1041	1013	1013
57.5°	2663	2239	1880	1714	617	1327	1170	1078	967	940	921
60°	2617	2156	1824	1677	627	1290	1106	1004	894	866	866
62.5°	2497	2064	1778	1668	636	1235	1060	931	792	774	774
65°	2515	2036	1760	1631	645	1198	995	783	617	599	608
67.5°	2663	2064	1695	1566	617	1096	792	562	415	405	442
70°	2340	1640	1271	1271	525	774	451	295	276	267	276
72.5°	1336	682	350	396	295	304	184	184	221	212	203
75°	940	415	147	120	101	101	92	120	157	129	129
77.5°	608	276	92	74	64	46	55	64	83	55	74
80°	295	147	55	55	37	18	28	37	37	37	37
82.5°	64	46	37	37	28	0	9	0	0	9	0
85°	9	9	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
175°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)